

# United States Patent and Trademark Office

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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,289 01/22/2002		01/22/2002	Yutaka Nakata	045237-0103	4765
22428	7590	04/30/2003			
FOLEY A	ND LARI	ONER	EXAMINER		
SUITE 500	ner mu		TSIDULKO, MARK		
3000 K STR WASHING		20007			
WASIIING	ION, DC	20007		ART UNIT	PAPER NUMBER
				2875	
				DATE MAILED: 04/30/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    10/051,288									
Examin r   Mark Tsidulko   2875		Application No.	Applicant(s)	1					
Mark Tsidulko   2875	Office Action Summany								
Th. MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the positions of 37 CFR 1.158(a). In one event, however, may a reply be limity filed  Extensions of time may be available under the positions of 37 CFR 1.158(a). In one event, however, may a reply be limity filed  If the period for reply specified above is less than thirty (30) days, a reply within the statution minimum of thirty (30) days will be considered timely.  If NO period for reply specified above is less than thirty (30) days, a reply within the priod for reply the period for reply will, by statute, cause the application to become AdMONATCH (31 U.S. © \$ 133).  Fallow to reply within the set or cateridade period for reply will, by statute, cause the application to become AdMONATCH (31 U.S. © \$ 133).  Fallow to reply within the set of cateridade period for reply will, by statute, cause the application to become AdMONATCH (31 U.S. © \$ 133).  Fallow to reply within the set of cateridade period for reply will, by statute, cause the application to become AdMONATCH (31 U.S. © \$ 133).  Fallow to reply within the set of cateridade period for reply will by statute and the communication.  1) Set of this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1:15 is/are pending in the application.  5) Claim(s) 1:15 is/are pending and the application.  6) Claim(s) 1:15 is/are pending and the application in the applic									
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of fines may be available under the provisions of 37 CFR 1.15(a). In no event, jouwever, may a reply be simily filed  Extensions of fines may be available under the acreditors of 37 CFR 1.15(a). In no event, jouwever, may a reply be simily filed  Extensions of fines may be available under the acreditors of 37 CFR 1.15(a). In no event, jouwever, may a reply be simily filed  Extensions of fines may be available under the acreditors of 37 CFR 1.15(a). In no event, jouwever, may a reply be simily filed  If NO period for reply is specified above, the maintening shall be considered with the shallow provided filed to 1.15 period will apply and vall expire SX (b) MONTHS from the mainting date of this communication.  Fallows to reply which the end of similar provided is shall be considered shallows.  **Election of the status of the shallows of the communication of this communication. See 37 CFR 1.76(a).  **Status**  1) ★ Responsive to communication(s) filed on 0.66 February 2003.  2a) ★ This action is FINAL.  2b) ★ This action is non-final.  3) ★ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x partie Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ★ Claim(s) 1.15 is/are pending in the application.  4a) Of the above claim(s) ★ is/are withdrawn from consideration.  5) ★ Claim(s) 1.15 is/are rejected.  7) ★ Claim(s) ★ is/are objected to.  8) ★ Claim(s) ★ is/are objected to by the Examiner.  10) ★ The drawing(s) filed on 22 January 2002 is/are: a) ★ accepted or b) ★ objected to by the Examiner.  Application Papers  9) ★ The proposed drawing correction filed on ★ is/are: a) ★ accepted or b) ★ objected to by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) ★ The proposed drawing correction filed on ★ is/are: a) ★	The MAILING DATE of this communication and								
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of ime may be available under the provisions of 37 CPR 1.35(a). In one event, however, may a reply be limitly fled after SIX (8) MONTHS from the mailing date of this communication.  If NO provide or reply is specified above, the maximum statutory period willing that will be a statutory minimum of this (10) days will be considered timely, which is not provided above, the maximum statutory period willing that will be a statutory minimum of this (10) days will be considered timely, and the provided by the Office and the normal maximum of the communication. Failure to reply vision the set or extended specific reply will be statutory minimum of this communication. Failure to reply vision the set of contended specific provided by the Office and the normal maximum of the communication of the c		ears on the cover sheet with the t	onespondence address						
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3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal							

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#### DETAILED ACTION

The submission of the amendment filed on 2/6/2003 is acknowledged. At this point claims 2-8 have been amended and new claims 9-15 have been added. Thus, claims 1-15 are at issue in the instant application.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Strobel et al. (U.S. 5,204,820) in view of Bertling et al. (U.S. 5,440,456).

Referring to Claims 1, 3, 4 Strobel et al. disclose (Fig.1) a lamp device for vehicle having a light source [3], a reflector [1] in which a reflection surface is Bezier (or B-spline) surface (Abstract). Strobel et al. also disclose that a reflected light irradiates to an external section in accordance with a target light distribution pattern (Abstract, lines 3-6).

Strobel et al. disclose the instant claimed inventions except for: a lens having no prism and formed in a recess shape in a vertical and horizontal cross sections.

Bertling et al. disclose a lens [28] having no prism and formed in a recess shape in a vertical and horizontal cross sections. Since vertical and horizontal cross sections of the lens are formed in the recess shape, the light is largely refracted by the lens. As result, it is possible to

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construct the headlamp having small light generation and large illumination intensity distribution..

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the lens of Bertling et al. for the lamp device of Strobel et al. in order to use a small light generation and obtain a large illumination intensity distribution for the headlight.

Referring to Claim 2 Strobel et al. disclose the instant claimed inventions except for: reflector surface of the reflector is structured such that the vertical cross section and horizontal cross section are formed in a oval surface larger than the lens.

Bertling et al. disclose (Fig.1) a lamp device wherein the reflection surface of reflector is structured such that the vertical cross section and the horizontal cross section formed in a substantially oval surface larger then curved surface of the lens.

This structure allows the light concentrate on a point close to the optical axis and obtain the light flux with bigger density. The result is improved visibility of a road surface ahead of the vehicle.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the structure of Bertling et al. for device of Strobel et al. for purpose of transmitting reflected light to an external section with a desired light distribution.

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Referring to claims 5-12 Bertling et al. disclose a lens but does not disclose a free curved surface formed on a front surface of the lens. Free curved surface is well known in the art of illumination. Free curved surface is a surface which cannot be strictly described by the analytical expression and used for obtaining the light with a target distribution pattern. It is understood that the free curved surface may be provided on any surface of the lens (front, back or both) depending on necessity.

Referring to claims 13, 14 it is understood that any desired type of the lens well known in the art such as biconcave (having recess on front and back sides) or concave-convex (having recess-shaped first surface and convex-shaped second surface) may be used depending on necessity.

Referring to Claim 15 it is understood that any surface of the lens may be disposed facing the reflector.

## Response to Arguments

Applicant's arguments filed on 2/6/03 have been fully considered but they are not persuasive.

Applicant argue that the combination of Strobel's reflector and Bertling's lens would not produce the desired optical pattern, as the Bertling's lens does not have a focal point.

In response, it well known that any lens having curved surfaces has a focal point. Even lens having two flat parallel surfaces theoretically has a focal point in the infinity.

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Applicant argue that Bertling does not show a reflector surface is larger than the lens.

In response, it is clearly visible of Fig.1 of Bertling that the reflector [10] has reflecting surface which is larger than the recessed surface [28] of the lens [24].

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Tsidulko whose telephone number is (703)308-1326. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (703) 305-4939. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and

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(703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

M.T.

April 24, 2003

Sandra O'Shea Supervisory Patent Examiner

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